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SOFSEM 2011: Theory and Practice of Computer Science

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in Theory and Practice of Computer Science
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Proceedings

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Preface

The 37th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2011, was held during January 22–28, 2011 in the Hotel Atrium, Nový Smokovec, of the Tatra Mountains of Slovakia. This volume contains 5 of the invited lectures and 41 contributed papers selected for presentation at the conference. The contributed papers were selected by the Program Committee out of a total of 122 submissions.

SOFSEM (originally SOFTware SEMinar) is an annual international winter conference devoted to the theory and practice of computer science. Its aim is to present the latest developments in research for professionals from academia and industry, working in leading areas of computer science. As a well-established and fully international conference, SOFSEM maintains the best of its original Winter School aspects, such as a high number of invited talks, in-depth coverage of selected research areas, and ample opportunities to discuss and exchange new ideas. SOFSEM 2011 was organized around the following four tracks:

- Foundations of Computer Science (Chair Ivana Černá)
- Software, Systems, and Services (Chair Tibor Gyimothy)
- Processing Large Datasets (Chair Keith Jeffery)
- Cryptography, Security and Trust (Chairs Stefan Wolf and Marko Vukolic)

An integral part of SOFSEM 2011 was the traditional Student Research Forum (Chair Mária Bielíková) organized with the aim to give students feedback on both the originality of their scientific results and on their work in progress. The papers presented at the Student Research Forum were published in local proceedings.

SOFSEM 2011 was organized by the Faculty of Mathematics, Physics and Informatics of the Comenius University in Bratislava, and the Slovak Society for Computer Science with support from the Czech Society of Cybernetics and Informatics.

SOFSEM 2011 added a new page to the tradition of SOFSEM dating back to 1974, which was possible due to the effort of many people. As editors of these proceedings, we are grateful to everyone who contributed to the scientific program of the conference. We would like to thank the invited speakers Christian Cachin, Markus Gross, Juerg Gutknecht, Tony Hey, Rainer Koschke, Ulrich Rührmair, Vitaly Shmatikov, Jiri Srba, and Tomas Vojnar for presenting their work to the audience of SOFSEM 2011. We thank all authors who submitted their papers for consideration. Many thanks go to the Program Committee, and to all external referees, for their hard work in evaluating the papers. The work of the Program Committee was carried out using the EasyChair system, and we gratefully acknowledge this contribution. Special thanks are due to Mária Bielíková, of the Slovak University of Technology in Bratislava, for her expert preparation and

handling of the Student Research Forum, and to the SOFSEM Steering Committee headed by Július Štuller, of the Institute of Computer Science in Prague, for its excellent support throughout the preparation of the conference.

We are also indebted to the Organizing Committee led by Vanda Hambáľková and Dana Pardubská.

November 2010

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